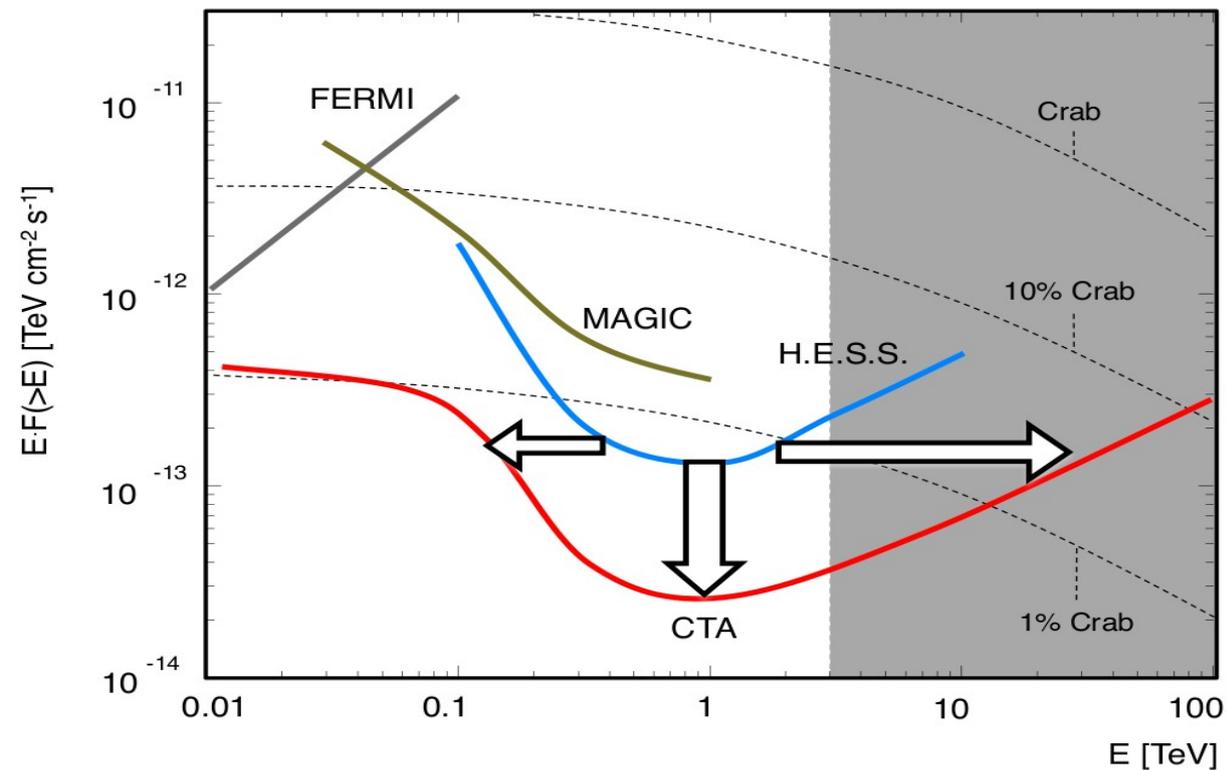
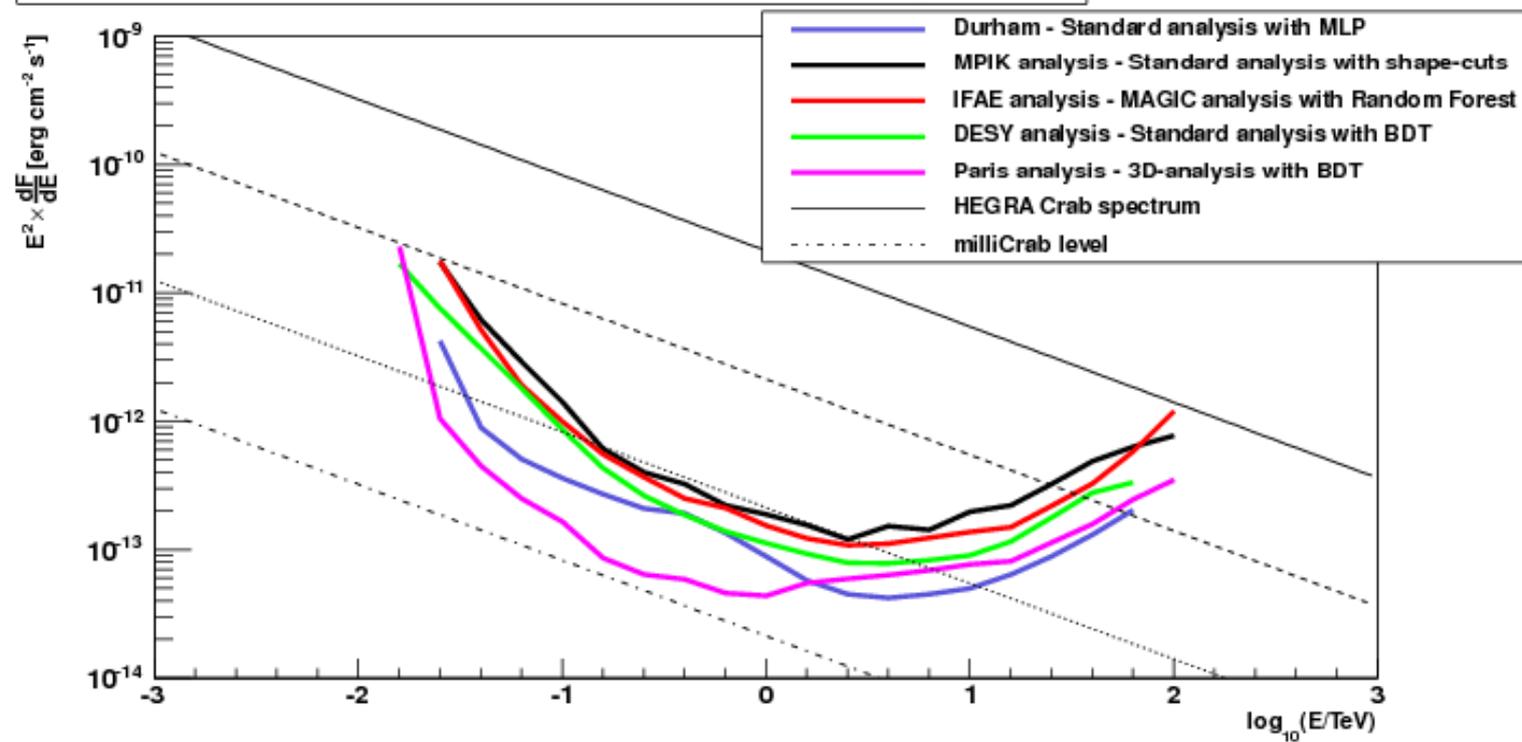


# Simulations

- Performance of CTA will be determined by its angular resolution, energy resolution, and sensitive field of view
- Dependent on a large number of technical and design perimeters
  - general layout with telescope size and locations, telescope optics, camera field of view and pixel size, signal shapes and trigger logic
  - Interconnected either technically or by cost
  - Learn from Previous IACTs
- Monte Carlo Work Package (MCWP)
- Using standard image parametrisation and *Multi-Layer Perceptron (MLP) neural network* for background rejection to estimate sensitivity.



**CTA configE differential flux sensitivity: 50.0 hour exposure**



# Why am I here?

- Dark Matter searches – substructure.
- Analysis of the angular power spectrum of anisotropies
- Look at Fermi Data and simulation data to extrapolate to possibilities with CTA

# Questions?

